

ABSTRACT

The present invention relates to a high-frequency power amplifier having differential inputs, and more specifically to a high-frequency power amplifier having differential inputs, in which a structure of an output port of a communication system for 2.4 GHz ISM frequency band can be simplified by designing and producing the high-frequency power amplifier having differential inputs for 2.4 GHz ISM frequency band using a silicon germanium (SiGe) microwave monolithic integrated circuit (MMIC), thereby decreasing the number of components of a transmission unit and reducing a price of the communication system.